

Massachusetts Home Energy Scorecard

This scorecard compares the home's energy use and carbon footprint to an average home in Massachusetts.

Home Energy Use

34

Parker Rd 234 #4-zLOPWV8d

234 Parker Rd #4
234 Parker rd #4 final

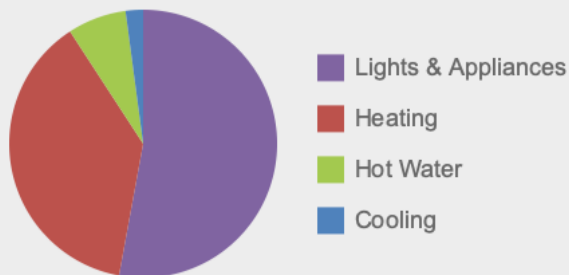
Year Built 2023	Sq. Footage 1,564 ft²
Number of Bedrooms 2	Primary Heating Fuel Electric
Assessment Date April 5, 2023	Energy Specialist Paul Graney

Yearly Energy Use

Natural Gas 97 Therms	Electric 6,999 kWh
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Yearly Energy Costs*

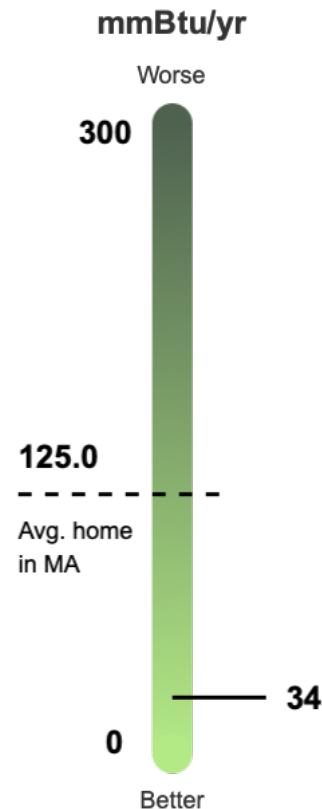
Total
\$1,638



Electric: \$0.21/kWh, Natural Gas: \$1.66/Therm

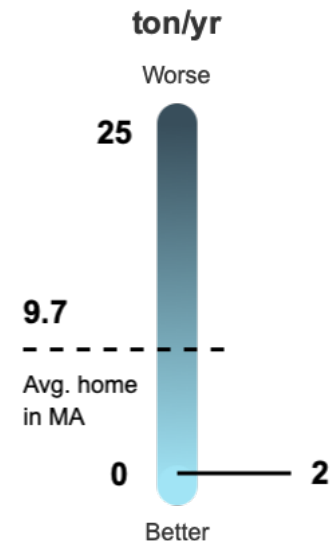
Home Energy Use

This shows the estimated total energy use (electricity and heating fuel) of your home for one year. The lower the energy use, the better.



Home Carbon Footprint

This shows the estimated annual carbon emissions associated with your home and is based on your home's estimated total annual energy use. The lower the score, the less carbon pollution is released into the atmosphere.



HERS® Index

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RESNET's HERS® Index assesses the energy efficiency of a home. A HERS-100 home is as energy efficient as a home built to 2006 code. A HERS-0 home uses zero net energy in a typical year. Learn more at [hersindex.com](https://www.hersindex.com)

*These are estimated costs. Actual energy costs may vary and are based on many factors such as occupant behavior, weather and utility rates.

Please see the next page for more information on how the Home Energy Use and Home Carbon Footprint are calculated.

Your Massachusetts Home Energy Scorecard

The Massachusetts Home Energy Scorecard (MA Scorecard) is a tool to assess a home's expected energy use, cost, and carbon footprint. A low energy use generally means that a home has a smaller carbon footprint and lower energy costs. The MA Scorecard also allows for comparisons of one home's energy use and carbon footprint. This is because the energy use and carbon footprint are calculated without the influence of occupant behavior, which can vary.

Home Energy Use

The Home Energy Use (HEU) calculation is based on a home's size, design, insulation levels, air leakage, heating and cooling systems, major appliances, lighting, hot water heating, and any electricity produced by on-site solar PV. The HEU number is "normalized" in the sense that occupant behavior, which can vary, is taken out of the calculation. A home's actual energy use will vary with number of occupants, occupant behavior, weather, and changes to the home.

Useful Terminology

Btu

A Btu, or British Thermal Unit, is a measurement of the heat/energy content of fuel. mmBtu stands for one million Btus. One Btu $\approx$ the energy produced by a single wooden match. One million Btus $\approx$ the energy produced by 7 gallons of gasoline used in a typical car.

Carbon Footprint

The greenhouse gas emissions associated with a home's energy use impact the environment. The Carbon Footprint calculation is based on the carbon emissions for the annual amounts, types, and sources of fuels used in your home. Measurement is in tons of carbon dioxide per year (tons/year). One ton = 2,000 miles driven by one car (typical 21 mpg car.). For electricity, carbon emissions are based on electricity consumed onsite and the mix of fuel sources used in the region to generate that electricity at the time of this report. For fossil fuel used in heating and hot water, carbon emissions are based on the terms of natural gas or gallons of oil or propane used in the home.

Average Home in Your Area

The "Average Home in Your Area" refers to the average energy use or carbon footprint of all the homes in Massachusetts before implementation of any energy improvements. The average may vary slightly over time as homes become more efficient due to improvements.

What is HERS?

The Home Energy Rating System (HERS) Index is the industry standard by which a home's energy efficiency is measured and compared with other homes. The lower the score, the more energy efficient the home.

An energy rating has been completed for this home by a certified HERS Rater who did multiple, rigorous inspections and performance tests. They collected hundreds of data points and input them into Ekotrope RATER software, which performs a year-long hourly energy simulation to estimate how much energy the home will consume. The HERS rater is not affiliated with the builder and their work is reviewed by a third party.

Home Feature Summary

Home Type:	Single family detached
Model:	2nd Ave 16
Community:	N/A
Conditioned Floor Area:	1,564 ft ²
Number of Bedrooms:	2
Primary Heating System:	Dual Fuel Heat Pump • Electric • 9.5 HSPF
Primary Cooling System:	Air Source Heat Pump • Electric • 16.5 SEER
Primary Water Heating:	Residential Water Heater • Natural Gas • 0.96 UEF
House Tightness:	311 CFM50 (1.14 ACH50)
Ventilation:	25 CFM, 57 CFM • 21 Watts, 8.7 Watts • ERVExhaust Only
Duct Leakage to Outside:	42 CFM @ 25Pa (2.69 / 100 ft ²)
Above Grade Walls:	R-21
Ceiling:	Vaulted Roof, R-51
Window Type:	U-Value: 0.3, SHGC: 0.31
Foundation Walls:	R-14
Framed Floor:	R-30